AUTHOR INDEX

AKAIKE N., INOUE M. & KRISHTAL O.A. 'Concentration-clamp' study of γ-aminobutyric-acid-induced chloride current kinetics in frog sensory neurones. 171

ALMARAZ L., GONZALEZ C. & OBESO A. Effects of high potassium on the release of [^{3}H]dopamine from the cat carotid body *in vitro*. 293

AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

BANNER Lisa R. & HERRERA Albert A. Differences in synaptic efficacy at neuromuscular junctions in frog twitch muscles. 205

BENNETT Max R., JONES Phillip & LAVIDIS Nickolas A. The probability of quantal secretion along visualized terminal branches at amphibian (*Bufo marinus*) neuromuscular synapses. 257

BIGLAND-RITCHIE B.R., DAWSON N.J., JOHANSSON R.S. & LIPPOLD O.C.J. Reflex origin for the slowing of motoneurone firing rates in fatigue of human voluntary contractions. 451

BISCOE T.J. & DUCHEN M.R. Synaptic physiology of spinal motoneurones of normal and *spastic* mice: an *in vitro* study. 275

BOYD C.A.R. & SHENNAN D.B. Sulphate transport into vesicles prepared from human placental brush border membranes: inhibition by trace element oxides. 367

BROWN A.M., KUNZE D.L. & YATANI A. Dual effects of dihydropyridines on whole cell and unitary calcium currents in single ventricular cells of guinea-pig. 495

CHABALA Lee D. & LESTER Henry A. Activation of acetylcholine receptor channels by covalently bound agonists in cultured rat myoballs. 83

CHRISTEN R., SCHACKMANN R.W. & SHAPIRO B.M. Ionic regulation of sea urchin sperm motility, metabiolism and fertilizing capacity. 347

COLLEWIJN Han & TAMMINGA Ernst P. Human fixation and pursuit in normal and open-loop conditions: effects of central and peripheral retinal targets. 109

DAWSON N.J. *see* BIGLAND-RITCHIE B.R., DAWSON N.J., JOHANSSON R.S. & LIPPOLD O.C.J. Reflex origin for the slowing of motoneurone firing rates in fatigue of human voluntary contractions. 451

DOMICH L., OAKSON G. & STERIADE M. Thalamic burst patterns in the naturally sleeping cat: a comparison between cortically projecting and reticularis neurones. 429

DREIFUSS J.J. & RAGGENBASS M. Tachykinins and bombesin excite non-pyramidal neurones in rat hippocampus. 417

DUCHEN M.R. *see* BISCOE T.J. & DUCHEN M.R. Synaptic physiology of spinal motoneurones of normal and *spastic* mice: an *in vitro* study. 275

DUNANT Y. & MULLER D. Quantal release of acetylcholine evoked by focal depolarization at the *Torpedo* nerve–electroplaque junction. 461

EBNER F., KORTH M. & KÜHLKAMP V. The reaction of ouabain with the sodium pump of guinea-pig myocardium in relation to its inotropic effect. 187

EDWARDS A.V., HANSELL Deborah & JONES C.T. Effects of synthetic adrenocorticotrophin on adrenal medullary responses to splanchnic nerve stimulation in conscious calves. 1

EISNER D.A. & VALDEOLMILLOS M. Erratum: *Journal of Physiol.* **375** (1986) 515

ERKELENS Casper J. & REGAN D. Human ocular vergence movements induced by changing size and disparity. 145

EVANS Peter D., REALE Vincenzina & VILLEGAS Jorge Peptidergic modulation of the membrane potential of the Schwann cell of the squid giant nerve fibre. 61

FERRELL W.R. & RUSSELL N.J.W. Extravasation of the knee induced by antidromic stimulation of articular C fibre afferents of the anaesthetized cat. 407

FORSCHER Paul, OXFORD Gerry S. & SCHULZ Dave Noradrenaline modulates calcium channels in avian dorsal root ganglion cells through tight receptor–channel coupling. 131

GINESI Laura M. & NOBLE A.R. Secretion control for active and inactive renin: effect of ouabain on release from rabbit kidney cortex slices. 17

GONZALEZ C. *see* ALMARAZ L., GONZALEZ C. & OBESO A. Effects of high potassium on the release of [^{3}H]dopamine from the cat carotid body *in vitro*. 293

GREGORY P.C., RAYNER V. & WENHAM G. The influence of intestinal infusion of fats on small intestinal motility and digesta transit in pigs. 27

HANSELL Deborah *see* EDWARDS A.V., HANSELL Deborah & JONES C.T. Effects of synthetic adrenocorticotrophin on adrenal medullary responses to splanchnic nerve stimulation in conscious calves. 1

HARDCASTLE Jacqueline & HARDCASTLE P.T. The involvement of basolateral potassium channels in the intestinal response to secretagogues in the rat. 331

HARDCASTLE P.T. *see* HARDCASTLE Jacqueline & HARDCASTLE P.T. The involvement of basolateral potassium channels in the intestinal response to secretagogues in the rat. 331

HERRERA Albert A. *see* BANNER Lisa R. & HERRERA Albert A. Differences in synaptic efficacy at neuromuscular junctions in frog twitch muscles. 205

HUNT C.C. *see* AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

ILLES P., RAMME D. & STARKE K. Presynaptic opioid δ-receptors in the rabbit mesenteric artery. 217

INOUE M. *see* AKAIKE N., INOUE M. & KRISHTAL O.A. 'Concentration-clamp' study of γ-aminobutyric-acid-induced chloride current kinetics in frog sensory neurones. 171

JOHANSSON R.S. *see* BIGLAND-RITCHIE B.R., DAWSON N.J., JOHANSSON R.S. & LIPPOLD O.C.J. Reflex origin for the slowing of motoneurone firing rates in fatigue of human voluntary contractions. 451

JONES C.T. *see* EDWARDS A.V., HANSELL Deborah & JONES C.T. Effects of synthetic adrenocorticotrophin on adrenal medullary responses to splanchnic nerve stimulation in conscious calves. 1

JONES Phillip *see* BENNETT Max R., JONES Phillip & LAVIDIS Nickolas A. The probability of quantal secretion along visualized terminal branches at amphibian (*Bufo marinus*) neuromuscular synapses. 257

KORTH M. *see* EBNER F., KORTH M. & KÜHLKAMP V. The reaction of ouabain with the sodium pump of guinea-pig myocardium in relation to its inotropic effect. 187

KRISHTAL O.A. *see* AKAIKE N., INOUE M. & KRISHTAL O.A. 'Concentration-clamp' study of γ-aminobutyric-acid-induced chloride current kinetics in frog sensory neurones. 171

KÜHLKAMP V. *see* EBNER F., KORTH M. & KÜHLKAMP V. The reaction of ouabain with the sodium pump of guinea-pig myocardium in relation to its inotropic effect. 187

KUNZE D.L. *see* BROWN A.M., KUNZE D.L. & YATANI A. Dual effects of dihydropyridines on whole cell and unitary calcium currents in single ventricular cells of guinea-pig. 495

LAPORTE Y. *see* AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

LAVIDIS Nickolas A. *see* BENNETT Max R., JONES Phillip & LAVIDIS Nickolas A. The probability of quantal secretion along visualized terminal branches at amphibian (*Bufo marinus*) neuromuscular synapses. 257

LESTER Henry A. *see* CHABALA Lee D. & LESTER Henry A. Activation of acetylcholine receptor channels by covalently bound agonists in cultured rat myoballs. 83

LIPPOLD O.C.J. *see* BIGLAND-RITCHIE B.R., DAWSON N.J., JOHANSSON R.S. & LIPPOLD O.C.J. Reflex origin for the slowing of motoneurone firing rates in fatigue of human voluntary contractions. 451

MULLER D. *see* DUNANT Y. & MULLER D. Quantal release of acetylcholine evoked by focal depolarization at the *Torpedo* nerve–electroplaque junction. 461

MULLER D. Potentiation by 4-aminopyridine of quantal acetylcholine release at the *Torpedo* nerve–electroplaque junction. 479

NOBLE A.R. *see* GINESI Laura M. & NOBLE A.R. Secretion control for active and inactive renin: effect of ouabain on release from rabbit kidney cortex slices. 17

NODA Hiroharu Mossy fibres sending retinal-slip, eye, and head velocity signals to the flocculus of the monkey. 39

OAKSON G. *see* DOMICH L., OAKSON G. & STERIADE M. Thalamic burst patterns in the naturally sleeping cat: a comparison between cortically projecting and reticularis neurones. 429

OBESO A. *see* ALMARAZ L., GONZALEZ C. & OBESO A. Effects of high potassium on the release of [^{3}H]dopamine from the cat carotid body *in vitro*. 293

OXFORD Gerry S. *see* FORSCHER Paul, OXFORD Gerry S. & SCHULZ Dave Noradrenaline modulates calcium channels in avian dorsal root ganglion cells through tight receptor–channel coupling. 131

POLLIN B. *see* AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

RAGGENBASS M. *see* DREIFUSS J.J. & RAGGENBASS M. Tachykinins and bombesin excite non-pyramidal neurones in rat hippocampus. 417

RAMME D. *see* ILLES P., RAMME D. & STARKE K. Presynaptic opioid δ-receptors in the rabbit mesenteric artery. 217

RAYNER V. *see* GREGORY P.C., RAYNER V. & WENHAM G. The influence of intestinal infusion of fats on small intestinal motility and digesta transit in pigs. 27

RAYNER V. & WENHAM G. Small intestinal motility and transit by electromyography and radiology in the fasted and fed pig. 245

REALE Vincenzina *see* EVANS Peter D., REALE Vincenzina & VILLEGAS Jorge Peptidergic modulation of the membrane potential of the Schwann cell of the squid giant nerve fibre. 61

REGAN D. *see* ERKELENS Casper J. & REGAN D. Human ocular vergence movements induced by changing size and disparity. 145

RUSSELL N.J.W. *see* FERRELL W.R. & RUSSELL N.J.W. Extravasation of the knee induced by antidromic stimulation of articular C fibre afferents of the anaesthetized cat. 407

SCHACKMANN R.W. *see* CHRISTEN R., SCHACKMANN R.W. & SHAPIRO B.M. Ionic regulation of sea urchin sperm motility, metabiolism and fertilizing capacity. 347

SCHULZ Dave *see* FORSCHER Paul, OXFORD Gerry S. & SCHULZ Dave Noradrenaline modulates calcium channels in avian dorsal root ganglion cells through tight receptor–channel coupling. 131

SEGAL Menahem Properties of rat medial septal neurones recorded *in vitro*. 309

SHAPIRO B.M. *see* CHRISTEN R., SCHACKMANN R.W. & SHAPIRO B.M. Ionic regulation of sea urchin sperm motility, metabiolism and fertilizing capacity. 347

SHENNAN D.B. *see* BOYD C.A.R. & SHENNAN D.B. Sulphate transport into vesicles prepared from human placental brush border membranes: inhibition by trace element oxides. 367

STARKE K. *see* ILLES P., RAMME D. & STARKE K. Presynaptic opioid δ-receptors in the rabbit mesenteric artery. 217

STERIADE M. *see* DOMICH L., OAKSON G. & STERIADE M. Thalamic burst patterns in the naturally sleeping cat: a comparison between cortically projecting and reticularis neurones. 429

TAMMINGA Ernst P. *see* COLLEWIJN Han & TAMMINGA Ernst P. Human fixation and pursuit in normal and open-loop conditions: effects of central and peripheral retinal targets. 109

THIESSON D. *see* AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

VALDEOLMILLOS M. *see* EISNER D.A. & VALDEOLMILLOS M. Erratum: *Journal of Physiol.* **375** (1986) 515

VAUGHAN-JONES R.D. An investigation of chloride–bicarbonate exchange in the sheep cardiac Purkinje fibre. 377

VILLEGAS Jorge *see* EVANS Peter D., REALE Vincenzina & VILLEGAS Jorge Peptidergic modulation of the membrane potential of the Schwann cell of the squid giant nerve fibre. 61

WENHAM G. *see* GREGORY P.C., RAYNER V. & WENHAM G. The influence of intestinal infusion of fats on small intestinal motility and digesta transit in pigs. 27

WENHAM G. *see* RAYNER V. & WENHAM G. Small intestinal motility and transit by electromyography and radiology in the fasted and fed pig. 245

YATANI A. *see* BROWN A.M., KUNZE D.L. & YATANI A. Dual effects of dihydropyridines on whole cell and unitary calcium currents in single ventricular cells of guinea-pig. 495

CONTENTS OF VOLUME 379

October 1986

EDWARDS A.V., HANSELL Deborah & JONES C.T. Effects of synthetic adrenocorticotrophin on adrenal medullary responses to splanchnic nerve stimulation in conscious calves. 1

GINESI Laura M. & NOBLE A.R. Secretion control for active and inactive renin: effect of ouabain on release from rabbit kidney cortex slices. 17

GREGORY P.C., RAYNER V. & WENHAM G. The influence of intestinal infusion of fats on small intestinal motility and digesta transit in pigs. 27

NODA Hiroharu Mossy fibres sending retinal-slip, eye, and head velocity signals to the flocculus of the monkey. 39

EVANS Peter D., REALE Vincenzina & VILLEGAS Jorge Peptidergic modulation of the membrane potential of the Schwann cell of the squid giant nerve fibre. 61

CHABALA Lee D. & LESTER Henry A. Activation of acetylcholine receptor channels by covalently bound agonists in cultured rat myoballs. 83

COLLEWIJN Han & TAMMINGA Ernst P. Human fixation and pursuit in normal and open-loop conditions: effects of central and peripheral retinal targets. 109

FORSCHER Paul, OXFORD Gerry S. & SCHULZ Dave Noradrenaline modulates calcium channels in avian dorsal root ganglion cells through tight receptor–channel coupling. 131

ERKELENS Casper J. & REGAN D. Human ocular vergence movements induced by changing size and disparity. 145

AKAIKE N., INOUE M. & KRISHTAL O.A. 'Concentration-clamp' study of γ-aminobutyric-acid-induced chloride current kinetics in frog sensory neurones. 171

EBNER F., KORTH M. & KÜHLKAMP V. The reaction of ouabain with the sodium pump of guinea-pig myocardium in relation to its inotropic effect. 187

BANNER Lisa R. & HERRERA Albert A. Differences in synaptic efficacy at neuromuscular junctions in frog twitch muscles. 205

ILLES P., RAMME D. & STARKE K. Presynaptic opioid δ-receptors in the rabbit mesenteric artery. 217

AZERAD J., HUNT C.C., LAPORTE Y., POLLIN B. & THIESSON D. Afferent fibres in cat ventral roots: electrophysiological and histological evidence. 229

RAYNER V. & WENHAM G. Small intestinal motility and transit by electromyography and radiology in the fasted and fed pig. 245

BENNETT Max R., JONES Phillip & LAVIDIS Nickolas A. The probability of quantal secretion along visualized terminal branches at amphibian (*Bufo marinus*) neuromuscular synapses. 257

BISCOE T.J. & DUCHEN M.R. Synaptic physiology of spinal motoneurones of normal and *spastic* mice: an *in vitro* study. 275

ALMARAZ L., GONZALEZ C. & OBESO A. Effects of high potassium on the release of [^{3}H]dopamine from the cat carotid body *in vitro*. 293

SEGAL Menahem Properties of rat medial septal neurones recorded *in vitro*. 309

HARDCASTLE Jacqueline & HARDCASTLE P.T. The involvement of basolateral potassium channels in the intestinal response to secretagogues in the rat. 331

CHRISTEN R., SCHACKMANN R.W. & SHAPIRO B.M. Ionic regulation of sea urchin sperm motility, metabiolism and fertilizing capacity. 347

BOYD C.A.R. & SHENNAN D.B. Sulphate transport into vesicles prepared from human placental brush border membranes: inhibition by trace element oxides. 367

VAUGHAN-JONES R.D. An investigation of chloride–bicarbonate exchange in the sheep cardiac Purkinje fibre. 377

FERRELL W.R. & RUSSELL N.J.W. Extravasation of the knee induced by antidromic stimulation of articular C fibre afferents of the anaesthetized cat. 407

DREIFUSS J.J. & RAGGENBASS M. Tachykinins and bombesin excite non-pyramidal neurones in rat hippocampus. 417

DOMICH L., OAKSON G. & STERIADE M. Thalamic burst patterns in the naturally sleeping cat: a comparison between cortically projecting and reticularis neurones. 429

BIGLAND-RITCHIE B.R., DAWSON N.J., JOHANSSON R.S. & LIPPOLD O.C.J. Reflex origin for the slowing of motoneurone firing rates in fatigue of human voluntary contractions. 451

DUNANT Y. & MULLER D. Quantal release of acetylcholine evoked by focal depolarization at the *Torpedo* nerve–electroplaque junction. 461

MULLER D. Potentiation by 4-aminopyridine of quantal acetylcholine release at the *Torpedo* nerve–electroplaque junction. 479

BROWN A.M., KUNZE D.L. & YATANI A. Dual effects of dihydropyridines on whole cell and unitary calcium currents in single ventricular cells of guinea-pig. 495

EISNER D.A. & VALDEOLMILLOS M. Erratum: *Journal of Physiology* **375** (1986). 515